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FRACTIONAL MOMENTS: NEW SOURCE OF INFORMATION IN RADIOSPECTROSCOPY.

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Abstract

A new fractional moments method for the absorption and dispersion curves in radiospectroscopy is suggested. The fractional moments solve the problem of moments existing in the mathematical statistics and enable one to restore the complex susceptibility chi (omega) and the relaxation function PHI (t) completely. The bond between the fractional moments of the chi (omega) and the fraction PHI (t) is found. The possible applications of this method for experimental measurements are shown.